W305ST

Widescreen engaging 3D projection in the smallest of spaces

- Native WXGA, 60” image from just 68cm away
- Shadow-free images on interactive whiteboards
- Bright images, vivid colours – 3200 ANSI Lumens
- Long lamp life – up to 10,000 hours[2]

BrilliantColor™ · 5 YEARS COLOUR GUARANTEED · Project Green · Eco+ · HD Ready · Full 3D

W305ST

Widescreen 3D projection in the smallest of rooms with the W305ST

The WXGA short throw, Full 3D W305ST at 3200 ANSI Lumens is designed to display bright, rich, colourful, crystal-clear images for both the education and business environments.

Captivate your audience, increase their learning potential and help improve results with lessons in crystal clear 2D or incredible 3D.

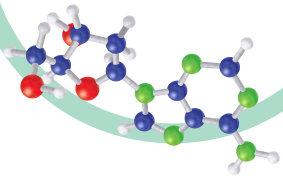
Perfect for installations with interactive whiteboards ensures teaching and business environments have the right tools for engaging and presenting to their audience without shadows and screen glare.

Incredible lamp life of up to 10,000 hours combined with Eco+ technology provides energy and money saving features.

FULL 3D FOR THE CLASSROOM

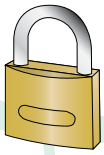
1 + 1 = 2

Engage and inspire your students with 3D lessons in Biology, Maths, Geography and many more.



SECURE

Kensington™ Lock, security bar and password protection act as a theft deterrent by preventing unauthorised use. Keypad lock prevents unauthorised adjustments and ensures the projector can only be controlled via the remote control.



ENERGY EFFICIENT = ENVIRONMENTALLY FRIENDLY = SAVE MONEY

Running costs are reduced thanks to reduced power consumption and standby mode <0.5W. When the projector is no longer required it will automatically turn off, saving energy and prolonging the life of the lamp.

Project Green

PERFECT FOR TEACHING

Maximise space in the classroom for teachers and students. The teacher can stand close to the interactive whiteboard without having the intense light from the projector shining directly into their eyes.

BRILLIANT COLOURS THAT LAST

Project stunning, vibrant and accurate colour images that won't decay overtime thanks to BrilliantColor™ and DLP® technology.

SAVES MONEY

DLP® ensures lower total cost of ownership, crystal-clear graphics and improved reliability compared to other technologies. Up to 10,000 hours lamp life Fewer lamp replacements = lower running costs.

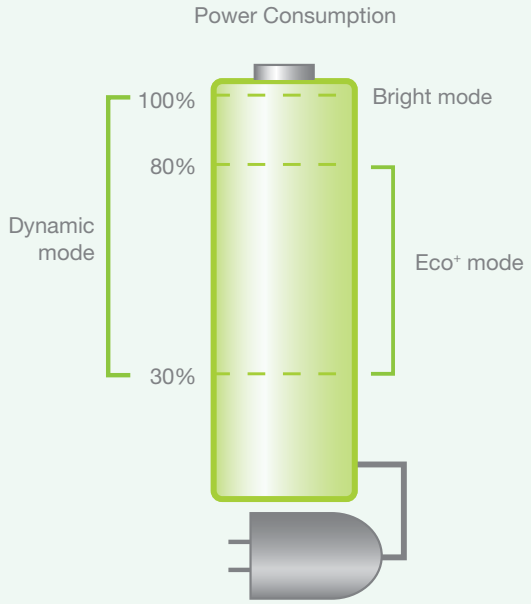
GREEN SOLUTIONS

ECO+ TECHNOLOGY FROM OPTOMA INCREASES OUR COMMITMENT TO REDUCING THE IMPACT WE ALL MAKE ON THE ENVIRONMENT

ECO+ MODE

Saving energy, saves money! Eco+ technology reduces the power

consumption to as little as 30%. This intelligent feature also has a positive effect on the lamp life, increasing it up to 70% while lowering the total cost of ownership and reducing maintenance.



Dynamically adjusts the brightness and power consumption

Bright scene
~100% Power consumption

Dark scene
~ 30% Power consumption

AUTO POWER OFF

There may be instances when the projector is left running when not in use. To help save energy if the projector is left running and no source is detected, the “Auto Power Off” feature automatically turns off the projector after a set period of time.

ECO AV MUTE

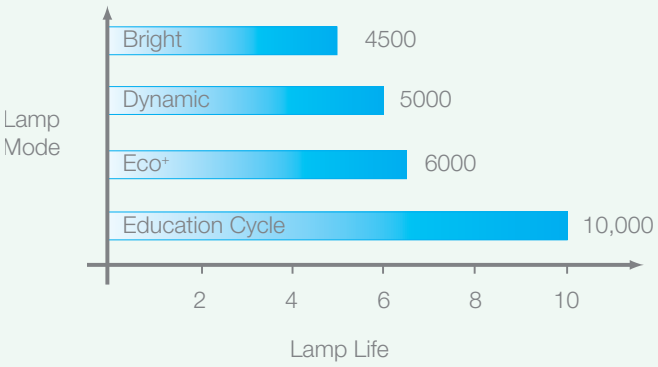
Stay in control of your presentation with the Eco AV mute feature. Direct your audience’s attention away from the screen by blanking the image when no longer needed. This also instantly reduces the power consumption to 30%, further prolonging the life of your lamp.

Eco AV mute off
100% Power consumption

Eco AV mute on
30% Power consumption

COST SAVING – LONG LAMP LIFE

Reduce the number of lamp changes with lamp life of up to 10,000 hours[2] using the Education Cycle.



ENVIRONMENTALLY FRIENDLY

Enabling the <0.5W standby mode ensures the minimum energy consumption when the projector is not switched on.

W305ST

SHORT THROW LENS

The W305ST can project an impressive 60" diagonal image from just 68cm from the screen. Standalone or wall mounted, the W305ST eliminates shadows on the screen and allows you to present with ease.

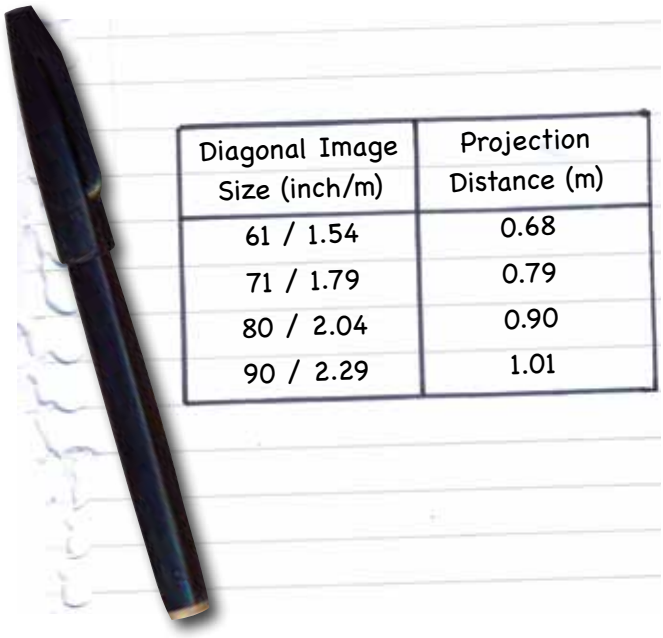
BRIGHT, DETAILED & COLOURFUL PROJECTION

Grab your audience's attention with bright, vivid projected images thanks to the BrilliantColor™ technology incorporated within the W305ST.

Preset display modes allow you to achieve a perfect image on a variety of surfaces including screens and interactive whiteboards

COLOUR GUARANTEE

We are so confident that the image colour quality of our projectors will remain as good as the day you bought it that Optoma will guarantee it for five years.

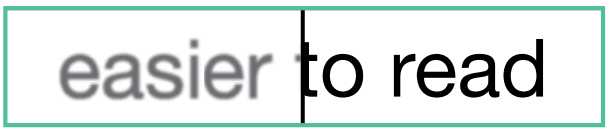


Diagonal Image Size (inch/m)	Projection Distance (m)
61 / 1.54	0.68
71 / 1.79	0.79
80 / 2.04	0.90
90 / 2.29	1.01

CLEAR, FOCUSED IMAGES

Lessons in the classroom and presentations in the boardroom demand sharp, flawless images. DarkChip3™ technology from Texas Instruments produces a stunning 18,000:1 contrast ratio for pin sharp graphics and Crystal-clear text. Crisper whites & ultra -rich blacks make images come alive and text easier to read.

To retain image clarity, Optoma projectors are designed with DLP® technology preventing degradation over time to give consistent pixel performance.

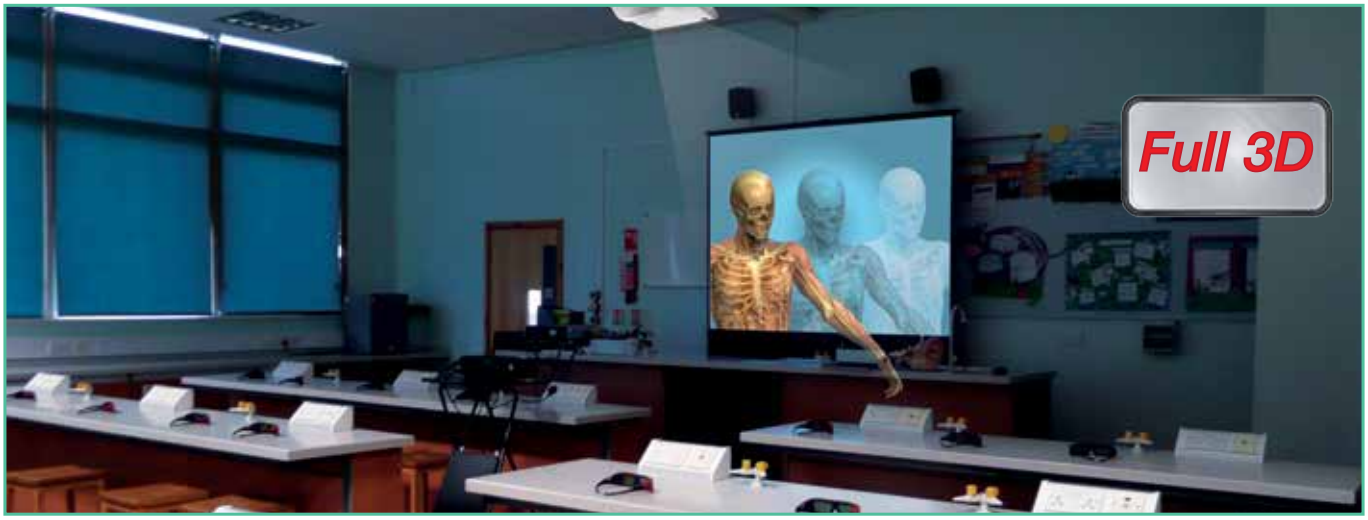


Low contrast DarkChip3

WIRELESS (OPTIONAL EXTRA)

WPS-3 Adapter lets you connect and display presentation & video material wirelessly. (Powered through VGA input)

W305ST



INSPIRE YOUR STUDENTS

Teaching in 3D is the latest innovation in education technology, opening up new avenues of learning for both educators and students alike. Engage and inspire your students with lessons taught in 3D – explore the world, travel through space, see inside the body and bring new ideas to life. Optoma 3D projectors take teaching to a whole new level of immersion and enjoyment… at no extra cost!

HOW DOES 3D WORK?

Using the inherent speed of DLP® technology, Optoma 3D Ready projectors can output video and images at an astonishing rate of 120Hz, allowing you to show full screen, full colour, stereoscopic 3D.

The 3D effect is generated by splitting this signal into two standard video streams, one for each eye. Using DLP® Link™ technology, the 3D glasses synchronise with the image on screen to filter each stream to the correct eye. Your brain then combines the two streams to make them jump into life.

The W305ST supports multiple 3D formats from varies devices such as PC, Blu-ray 3D™, Sony® PS3, Microsoft® Xbox 360 or 3D TV broadcast system.

3D Format	W305ST
Side -by-Side	Yes
Top-and-Bottom	Yes
Frame Packing	Yes
Frame Sequential	Yes

WHAT YOU NEED

1. Optoma W305ST
2. Optoma ZD301 3D Glasses
3. PC and 3D educational software

For more information please visit
www.optoma.eu/3deducation

RS232 CONTROL

The extensive RS232 command set makes it simple and easy to control the W305ST with any RS232 control system.

AMX COMPATIBILITY

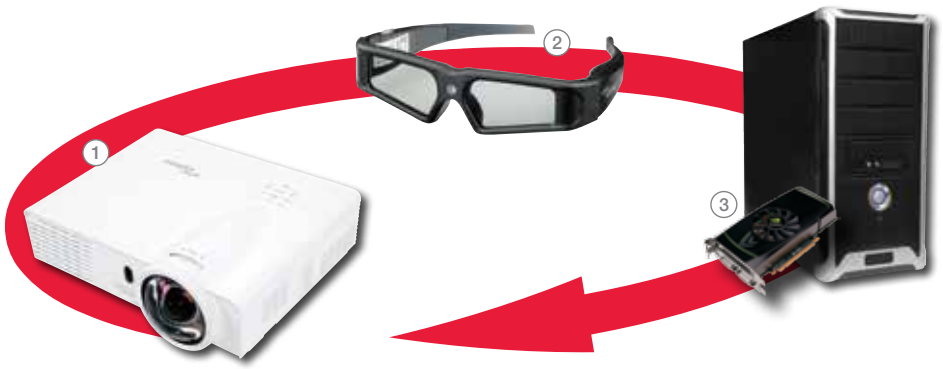
Dynamic Discovery Protocol is incorporated into the W305ST. This feature allows for easy installation with AMX control systems.

EXTRA FEATURES

Direct power on - start up time is significantly reduced as standby mode is bypassed when the power cable is inserted into an active power outlet. This eliminates the need to use the 'Power' button on the remote control or the projector keypad.

Auto power off - if after a pre-determined time the projector does not receive a signal, it will turn itself off automatically, conserving power and extending the life of the lamp.

Keypad lock - once enabled, prevents unauthorised adjustments ensuring the projector can only be controlled via the remote control.



W305ST

W305ST SPECIFICATIONS

Native Resolution	WXGA 1280 x 800
Display Technology	Single 0.65" WXGA DC3 DMD chip DLP® Technology by Texas Instruments
Brightness - BRIGHT mode[1]	3200 ANSI Lumens
Contrast	18,000:1
Noise Level	29dB (min)
Lamp Life[2]	6000/5000/4500 hours (Eco+/Dynamic/BRIGHT mode)
Education Cycle[2]	10,000 hours
Projections Lens	F Number 2.8 Focus Length 7.35mm Focus / Zoom Type Manual Focus / 2.0x Digital Zoom Throw Ratio 0.52:1 (Projection Distance: Image Width)
Projection Distance	0.5 - 2.5m
Image Size	1.13 – 5.67m (44.64" – 223.21") Diagonal 16:10
Offset	112.4% ±5%
Weight / Dimensions (W x D x H)	2.55 kg / 288 x 220 x 86mm
Remote Control	Full function remote with mouse control and direct source selecting
INPUTS	HDMI (HDCP) - audio supported 2 x 15 Pin D-Sub VGA Optional wireless via adaptor Component via adaptor S-Video 4 Pin Mini Din Composite RCA Audio In - 3.5mm Mini Jack USB Type B (remote mouse)
CONTROL	RS232 - 9 Pin Mini DIN
OUTPUT	15 Pin D-Sub VGA Audio Out - 3.5mm Mini Jack
Audio	2W Speaker
Aspect Ratio	16:10 Native, 16:9/4:3 Compatible
Keystone Correction	± 40° Vertical
On Screen Display	19 Languages: English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Russian, Finnish, Swedish, Greek, Norwegian/Danish, Hungarian, Czech, Turkish, Romanian, Farsi & Arabic
Compatible Resolutions	UXGA, SXGA, WXGA, HD, XGA, SVGA
Video Compatibility	PAL SECAM 576i/p, NTSC 480i/p, HD 720p/1080i/1080p
Uniformity	85%
Displayable Colours	1.07 Billion
Horizontal Scan Rate	15.3 - 91.1kHz
Vertical Scan Rate	24 - 85Hz (120Hz for 3D)
Power Supply	100 - 240V, 50 - 60Hz
Power Consumption	235W BRIGHT mode < 0.5W Standby mode 205W Eco mode < 0.5W Standby mode
Operating Conditions	Operating: 5 - 40°C, 85% Humidity (Max), 3000m Altitude (Max)
Security	Security Bar, Kensington Lock Port, Password Protection
Standard Accessories	Lens Cover, AC Power Cord, VGA Cable, Full Function Remote, Batteries x 2, Quick Start Guide, CD User Manual, Warranty Card, WEEE Card
RoHS	Compliant
Lamp Warranty	6 months or 1000 hours - whichever comes sooner
Warranty	Warranty may vary by country. Please see www.optomaeurope.com or ask your local supplier for details
Colour Guarantee[3]	5 Years
3D Support	The 3D features of Optoma projectors can only be used with compatible 3D content. Typical applications include use with 3D educational or 3D design and modelling systems. 3D TV broadcast systems, (SKY in the UK), Blu-ray 3D™ and 3D games from the Sony® PS3 or Microsoft® Xbox 360 are now supported as part of the HDMI v1.4a specification.
3D Viewing	Requires the Optoma DLP-Link shutterglasses - available separately.
3D Compatibility	Side-by-Side:1080i50 / 60, 720p50 / 60 Frame-pack: 1080p24, 720p50 / 60 Over-Under: 1080p24, 720p50 / 60

Optoma Accessories	
Projector Wall Mount - Part number: OWM855W	
	Wall mount for the W305ST Telescopic mount with height adjustment plate for versatile installation. Maximum projector image of 100" diagonal with the W305ST.
Lamp - Part number: SP.8TM01GC01	
	Optoma genuine lamp modules are designed and tested to work specifically with your Optoma projector to ensure quality, good performance and longevity.
WPS3-Adapter	
	Adapter lets you connect and display presentation & video material wirelessly. (Powered through VGA input)
ZD301 - 3D Glasses	
	Optoma ZD301 glasses allow compatible content to be viewed in stunning stereoscopic 3D.

EASY TO USE REMOTE CONTROL

W305ST Remote Control

1 Power
2 Mouse select
3 Source
4 Re-sync
5 Left mouse click
6 Right mouse click
7 Mouse control
8 Display mode
9 Page up/down control
10 Vertical keystone correction
11 Volume control
12 Brightness
13 Menu
14 Direct input source select
15 Eco AV mute
16 Eco+
17 3D control

W305ST Connections

18 USB (Remote Mouse)
19 HDMI
20 Video
21 S-Video
22 VGA Out
23 VGA 1
24 RS232
25 Audio In
26 VGA 2
27 Kensington™ Lock
28 Audio Out

W305ST Projection Distance 0.5 - 2.5m (16:10 Aspect Ratio)					
Projection Distance (m)	Horizontal Image Size (m)	Vertical Image Size (m)	Diagonal Image Size (m)	Diagonal Image Size (inch)	Image Offset (m)
0.50	0.96	0.60	1.13	44.64	0.07
0.60	1.15	0.72	1.36	53.57	0.09
0.70	1.35	0.84	1.59	62.50	0.10
0.80	1.54	0.96	1.81	71.43	0.12
0.90	1.73	1.08	2.04	80.35	0.13
1.00	1.92	1.20	2.27	89.28	0.15
1.10	2.12	1.32	2.49	98.21	0.16
1.20	2.31	1.44	2.72	107.14	0.18
1.30	2.50	1.56	2.95	116.07	0.19
1.40	2.69	1.68	3.17	125.00	0.21
1.50	2.88	1.80	3.40	133.92	0.22
2.00	3.85	2.40	4.54	178.57	0.30
2.50	4.81	3.00	5.67	223.21	0.37

For guide purposes only
W305ST is capable of 4:3/16:9 aspect ratio projection. When projecting a 4:3/16:9 image the image sizes, screen height and offset information will differ from the above.

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